#### APPENDIX

## MARTI F. WOLFE, PH.D., UNIVERSITY OF CALIFORNIA, DAVIS

Figure 1 – Map of Selenium and Giant Garter Snake Distribution

Budget Tables 3 and 4 and following annual breakdown.

Resumes

**Letters of Notification** 

Attachements D & E (State and Federal Forms)

Figure 1
SELENIUM CONCENTRATIONS IN SHALLOW GROUND WATER
Sampled between 1984 and 1989

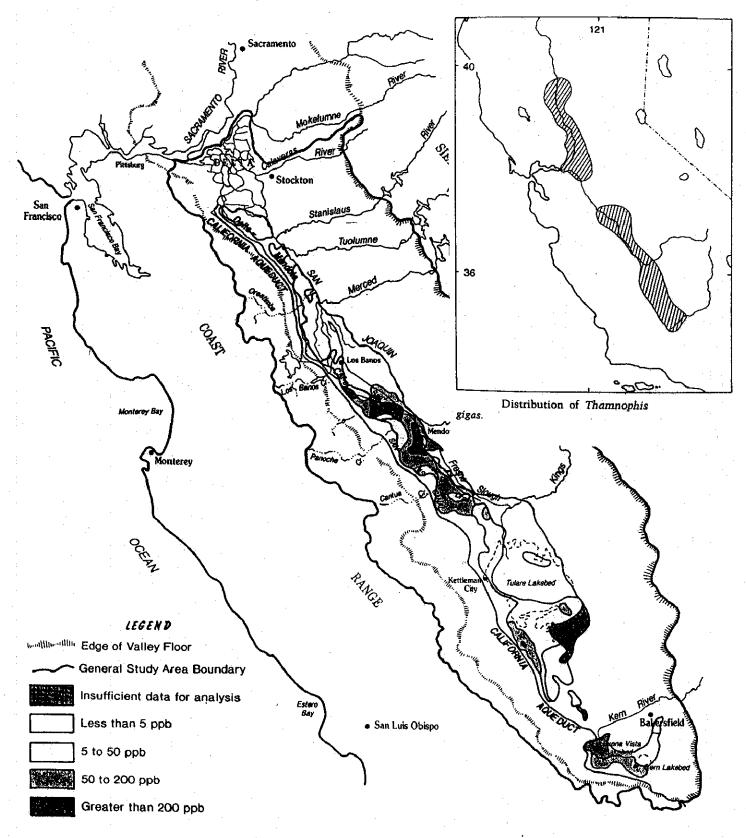


Table 3. Task Based Budget October 1, 1999 - March 31, 2002

Task#	Task	Direct labor hours	Direct Salary and Benefits	Service Contracts	Material and acquistion costs	Miscellaneous and other direct costs	Overhead and Indirect costs (10%MTDC)	Total cost
	Literature review	2.5%	\$4,377.00		·	\$650.00	\$381.00	\$5,408.00
1				and the second				
	Identification and characterization	5.0%	\$7,535.00				\$632.00	\$8,167.00
2	of non-selenium exposures				·			
<u>~</u>	Collection of selenium	Subcontractor USFWS					\$2,500.00	\$138,942.00
_	contaminated fish						42,000.00	4100,012.00
3	Measurement of selenium toxicity	10 59/	M17.011.00	\$136,442.00	<b>AE 000 00</b>	40.000.00	00000	1000 000 00
	to adult CGS	12.5%	\$17,011.00		\$5,030.00	\$2,000.00	\$2,282.00	\$26,323.00
. 4								
	Biomarker development and	18.0%	\$23,960.00		\$31,750.00	\$3,500.00	\$3,224.00	\$62,434.00
5 & 14	application		·	• .				, , , , , , , , ,
5 & 14	Selenium residue analysis	7.5%	\$10,694.00		\$6,300.00	\$400.00	\$1,618.00	\$19,012.00
			710,0000		40,000.00	<del> </del>	Ψ1,010.00	\$19,012.00
6&13								Î
	Histopathological analysis of adult snakes	Subcontractor Swee	·	\$4,200.00			\$420.00	\$4,620.00
7								
	Optimization of captive breeding	8.5%	\$11,957.00				\$1,074.00	\$13,031.00
8	conditions		·					
	Characterization of CGS	8.5%	\$11,957.00		<del> </del>	\$1,000.00	\$1,174.00	\$14,131.00
	selenium body burden and effects				e e e e e e e e e e e e e e e e e e e	01,000.00	ψ1,77 <del>4</del> .00	ψ1-4,101.00
9 .	in GGS range							,
	Determination of selen ium	12.5%	\$17,011.00	\$139,717.00	\$5,310.00		\$2,110.00	\$164,148.00
10	reproductive toxicity to CGS		,					
- 10	Histopathological analysis of	Subcontractor Swee		\$5,500.00			\$550.00	100 050 00
	offspring of exposed snakes	Teh		Ψ0,000.00			φοου.υυ	\$6,050.00
11								
	Apply biomarkers and sample CGS in GGS range. Non-lethally	10.0%	\$13,850.00		\$7,250.00	\$4,220.00	\$2,035.00	\$27,355.00
	sample GGS in selenium-bearing				,			
	and selenium-free areas of its range.						r	
19	range.	٠.		•				
12		<u> </u>						
Year Task								
	Data reduction, validation and reporting; and publication	7.5%	\$10,694.00	\$5,459.00	\$2,000.00	\$1,850.00	\$1,132.00	\$21,135.00
15		_					-	<b>!</b>
		7.5%	\$10,694.00			\$3,350.00	\$1,283.00	\$15,327.00
16	Project management							
•			•					

Table 4. Quarterly Budget Breakdown

Task	Oct-Dec 99	Jan-Mar 00	Apr-Jun 00	Jul-Sep 00	Oct-Dec 00	Jan-Mar 01	Apr-Jun 01	Jul-Sep 01	Oct-Dec 01	Jan-Mar 02	TOTAL
1	1,352	1,352	1,352	1,352							\$5,4008
2	2,042	2,042	2,042	2,041							\$8,167
3	34,736	34,736	34,735	34,735							\$138,942
4	6,581	6,581	6,581	6,580							\$26,323
5 & 14	6,244	6,243	6,243	6,243	6,244	6,243	6,243	6,243	6,244	6,244	\$62,434
6 & 13	1,901	1,901	1,901	1,901	1,901	1,901	1,901	1,901	1,902	1,902	\$19,012
7	1,155	1,155	1,155	1,155							\$4,620
8	3,258	3,258	3,258	3,257							\$13,031
9	3,533	3,533	3,533	3,533							\$14,131
10					27,358	27,358	27,358	27,358	27,358	27,358	\$164,148
11					1,009	1,009	1,008	1,008	1,008	1,008	\$6,050
12				"	4,560	4,559	4,559	4,559	4,559	4,559	\$27,355
15	2,114	2,114	2,114	2,114	2,114	2,113	2,113	2,113	2,113	2,113	\$21,135
16	1,533	1,533	1,533	1,533	1,533	1,533	1,533	1,532	1,532	1,532	\$15,327
Totl	64,449	64,448	64,447	64,443	44,719	44,716	44,715	44,714	44,716	44,716	\$526,083

#### **UC DAVIS BUDGET**

University of California, Davis Personnel	Percent Effort		Salary quested		nefits uested	.1	Total Requested
Marti Wolfe, Principal Investigator	50%	\$	22,450	\$	3,817	\$	26 267
Graduate Research Assistant	50%		13,788		179	ър \$	26,267
To be named, Staff Research Associate	25%		6,867	\$ \$	1,579	φ \$	13,967
Business Office, Administrative Asst.	3%	Ψ	\$750	φ \$	1,379	φ . <u>\$</u> _	8,446
Sub-total Personnel	0,0		ΨΙΟΟ	Ψ	173	\$	923 49,603
						Ψ	49,003
Travel							
Field Mileage and Per Diem (@ \$.315)				-		\$	1,000
Sub-total Travel						\$	
						4	1,000
Equipment	-					•	
Platereader						\$	22,000
Computer						\$	2,000
Microscope						\$	7,500
Sub-total Equipment					,		
out total Equipment						\$	31,500
Supplies							
Laboratory/Photo Supplies						¢	3,500
Snake Purchase				•		φ	3,300 720
Animal Food, Supplies/Containers					4.5	φ \$	1,100
Animal Care						\$	1,710
Biochemicals and Reagents						\$	2,400
Sub-total Supplies							
Cub total Supplies						\$	9,430
Contractual			•				
USF&WS						\$	136,442
Consultant, Swee Teh						э \$	4,200
,							
Other	•					\$	140,642
Fee Remission for Graduate Student	•					•	
Facility Charges for Animal Rooms						\$	4,466
Waste Disposal						\$	1,500
Communication Costs						\$	200
Office Costs, Copying	•					\$	1,080
·	•				•	\$	650
Subtotal Other Costs	÷					\$	7,896
			Tot	al Dire	ct Costs	\$	240,071
·		ፐ	otal Modifie			•	
	ç		ndirect Co			Ψ	92,663
Revised 4/12/99		V I			tal Cost	¢	9,266
				10	nai OUSL	Ψ	249,337

#### **UC DAVIS BUDGET**

JO DATIO BODGE!	Percent		Coloni	_			
	Effort	F	Salary lequested		enefits equested	ı	Total Requested
University of California, Davis Personnel		•			- questeu	'	requested
Marti Wolfe, Principal Investigator	50%	% \$	23,350	\$	3,970	\$	27,320
Graduate Research Assistant	50%	<b>%</b> \$	13,788	\$	179	\$	13,967
To be named, Staff Research Associate	25%	<b>%</b> \$	7,210	\$	1,658	\$	8,868
Business Office, Administrative Asst.	3%	6	\$775	\$	178	\$	953
Sub-total Personnel				·		\$	51,108
Travel			·				
Field Mileage and Per Diem (@ \$.315)						\$	1,000
Sub-total Travel						\$	
						Þ	1,000
Supplies							
Laboratory/Photo Supplies						\$	3,500
Animal Food/Supplies						\$	1,100
Animal Care			÷		,	\$	1,710
Selenium Analysis Supplies						\$	4,200
Hematology Profiles						\$	2,220
Biochemicals and Reagents			· · · · · ·		*	\$	2,400
Sub-total Supplies			:			\$	15,130
Contractual			•				•
USF&WS						Φ.	100 717
Consultant, Swee Teh						\$	139,717
						\$	5,500
Other						\$	145,217
Fee Remission for Graduate Student						\$	4,466
Facility Charges for Animal Rooms			4			\$	1,500
Waste Disposal	•					\$	200
Communication Costs						\$	1,080
Office Costs, Copying						\$	650
Subtotal Other Costs			· · · · · · · · · · · · · · · · · · ·			\$	7,896
							•
			Tot	al Dir	ect Costs	¢	220,351
		•	Total Modifie				76,168
			Indirect Co			Ψ	7,617
Revised 4/12/99					Total Cost	\$	227,968

#### **UC DAVIS BUDGET**

	Percent Effort	R	Salary equested		enefits equested		Total Requested
University of California, Davis Personnel	=	_					
Marti Wolfe, Principal Investigator Graduate Research Assistant	50%	\$	11,675	\$	1,985	\$	13,660
To be named, Staff Research Associate	50%	\$	6,894	\$	. 90	\$	6,984
Business Office, Administrative Asst.	25%	\$	3,605	\$	829	\$	4,434
Sub-total Personnel	3%		\$450	\$	104	<u>\$</u>	<u>554</u>
Sub-total Fersonnel						\$	25,631
Travel			•				
Field Mileage and Per Diem (@ \$.315)						\$	2,000
Sub-total Travel					•	\$	2,000
					*.		
Supplies Compliance							•
Laboratory/Photo Supplies						\$	1,000
Selenium Analysis Supplies						\$	2,100
Histology Supplies Biochemicals and Reagents			:			\$	1,000
						<u>\$</u>	1,200
Sub-total Supplies			•		e .	\$	5,300
Contractual			•				,
USF&WS						\$	5,459
Consultant, Swee Teh			·			\$	0,400
			1			s	5,459
Other						Ψ	0,409
Fee Remission for Graduate Student						\$	4,466
Communication Costs			•			\$	540
Publication Costs						\$	1,200
Office Costs, Copying			٠			\$	650
Subtotal Other Costs						\$	6,856
						•	•
			Total	el Di	rect Costs	\$	45,246
		. 1	Γotal Modifi			-	45,24 <del>6</del> 35,321
	g		Indirect Co			Ψ	3,532
Revised 4/12/99		- 1240			Total Cost	\$	48,778



## United States Department of the Interior

#### FISH AND WILDLIFE SERVICE

Sacramento Fish and Wildlife Office 3310 El Camino Avenue, Suite 130 Sacramento, California 95821-6340

FWS/EC-99-036

April 9, 1999

Dr. Marti Wolfe University of California Institute of Toxicology & Environmental Health One Shields Avenue Davis, CA 95616-8615

Subject: CALFED Proposal on the Effects of Dietary Selenium on Giant Garter Snakes

We support you in submitting a proposal to investigate "Impacts of Dietary Selenium on Giant Garter Snake Populations in the Sacramento-San Joaquin Watershed."

If the proposal is successful we would be pleased to work with you during the planning and implementation phase. If you have any questions or concerns please, contact Dr. William Beckon of our Environmental Contaminants Division, at (916) 979-2110.

Sincerely,

Wayne S. White Field Supervisor

#### **USFWS Budget**

Impacts of Dietary Selenium on Giant Garter Snake Populations in the Sacramento-San Joaquin Watershed

Garter snakes eat 20% of body wt per week in fish (Rossman et al, 1996) Average snake weight about 100 gm (male ~60 gm, female ~140 gm) (Wolfe pers. com.) Average wt of mosquitofish 0.5 gm (0.2-0.8 gm) (USFWS field data from Grassland Bypass Project monitoring Mar 31, 1999) Each snake needs 20 gm = 40 mosquitofish per week, 520 mosquitofish per quarter (13 wks) 3 biologists seine about 600 fish per day in sloughs/drain (200 fish per biologist day). 2.6 biologist days per quarter needed to catch fish for each snake.

To maintain 24 snakes on wild-caught fish:

24 snakes X 2.6 biologist days/snake/quarter = 62 biologist days/quarter Personnel costs /quarter =62 biologist days /quarter X \$530/biologist day = \$33,072

#### Year 1

FWS Personnel		4
Catching fish for 24 snakes Travel		\$132,288
included in personnel		\$0
Supplies Dry ice 60 lbs/quarter @\$0.75/lb		\$180
Overhead @ 3%		\$3,974
	Total Year 01	\$136,442
Year 2		
FWS Personnel Catching fish for 24 snakes Catching 12 snakes (6 biologist days @\$530) Travel		\$132,288 \$3,180
included in personnel		\$0
Supplies Dry ice 60 lbs/quarter @\$0.75/lb		\$180
Overhead @ 3%		\$4,069
	Total Year 02	\$139,717
Year 3 (6 months)		
FWS Personnel Report writing (10 biologist days@\$530)		\$5,300
Overhead @ 3%		\$ 159
	Total Year 03	\$ 5,459
Total		\$281,618

#### RESUME

#### Marti F. Wolfe, Ph.D.

Mailing Address:

Institute of Toxicology and Environmental Health

University of California One Shields Avenue Davis, CA 95616-8615

#### Research/Professional Background

4/85-8/86	Environmental Health and Safety Consultant, Fowler Associates
9/84-6/85 and	
9/78-6/79	Instructor, San Jose State University
1/90-12/92	Toxicologist and Industrial Hygiene Technician, Prezant Associates, Inc.
5/86-6/92	Graduate Research Assistant, Institute of Wildlife and Environmental Toxicology, Clemson S.C.
12/92-2/94	Project Scientist, Mantech Environmental Technology, USEPA Environmental Research Lab, Corvallis, OR
6/95-present	Faculty Research Assistant, Agricultural Chemistry Department, Oregon State University
1/92- present	Toxicologist and Partner, Toxicology Task Force, Philomath, OR

#### Education

4 /OF 0 /OC

University of California, Berkeley	B.S.	1974	Conservation
San Jose State University, San Jose	M.A.	1976	Biological Sciences
Washington State University. Pullman, WA	Ph.D.	1992	Pharmacology/Toxicology

#### **Honors**

Dean's List, UC Berkeley
M. J. Sharp Memorial Award for Outstanding Undergraduate Women

#### **Selected Publications**

- Wolfe, M. F. Estimation of waterborne concentrations of contaminants that are thresholds for adverse effects in wildlife: Mercury. Final Research Report to Office of Water, U.S. EPA, to be published as a volume in the series Case Studies in Ecological Risk Assessment, 1998.
- Wolfe, M. F., and R.J. Kendall. 1998 The Age-dependent toxicity and comparative metabolism of diazinon and terbufos in European starlings (<u>Sturnus vulgaris</u>) and red-winged blackbirds (<u>Agelaius phoeniceus</u>) Environ. Toxicol. Chem. 17:1300-1312.
- Wolfe, M. F., J. White and C. Simpson. 1998. Comparison of benzo[a]pyrene exposure in birds using CYP1A1 induction and bile metabolites: development of a non-lethal measure. Toxicol. Sci. 42S:23.
- Wolfe, M. F. and D. M. Norman 1998. Effects of waterborne mercury on wildlife at Clear Lake: Evaluation and field-testing of a predictive model. Environ. Toxicol. Chem. 17:214-227.
- Wolfe, M. F., S. Schwarzbach and R.A. Sulaiman. 1998. Effects of waterborne mercury on wildlife: A comprehensive review. Environ. Toxicol. Chem. 17:146-160

- White, J. and Wolfe, M. 1997. Earthquakes and oil spills: lessons from the Santa Clara River spill. Proceedings of the 1997 International Oil Spill Conference. Fort Lauderdale, FL, Apr. 7 10, 1997. pp. 1038-1039.
- Wolfe, M.F. and D.M Norman. 1997. Monitoring uptake of contaminants from tar sands effluent in wetlands using mallard ducklings. Society of Environmental Toxicology snd Chemistry 18th Annual Meeting, San Francisco CA, Nov. 16 20.
- Wolfe, M. F. and D. M. Norman. 1995. Uptake of water-borne contaminants by ducklings exposed via constructed wetlands. Final Report for EVS Consultants and Suncor Oil Sand Group.
- Wolfe, M.F. 1994. Estimation of Waterborne Concentrations of Contaminants that are Thresholds for Adverse Effects in Wildlife: Mercury. Interim Research Report to Office of Water, U.S. EPA.
- Furlong, C.E., R. Humbert, C. Hassett, C.J. Omiecinski and M.F. Wolfe. 1993 Molecular Basis of the Genetic Variability of Human Paraoxonase. The Toxicologist, abstracts of the 1992 Society of Toxicology Annual Meeting.

#### Publications In Preperation

- Wolfe, M.F. 1999. The role of cholinesterase kinetics in the toxicity of terbufos and diazinon to redwinged blackbirds and European starlings. *submitted*
- Wolfe, M.F., J. M. Funsch, D. Dix, and R. J. Kendall. 1999. Behavioral toxicity of terbufos in three species of passerine birds. *In preparation*
- Wolfe, M.F., and R.J. Kendall. 1999. Hepatic microsomal activation of terbufos and diazinon in redwinged blackbirds and European starlings. *In preparation*
- Wolfe, M.F., and R.J. Kendall. 1999. Carboxylesterase activities of adult and nestling redwinged blackbirds and European starlings. *In preparation*

#### Graduate and Postdoctoral Advisors and Advisees

Ann Fairbrother, US Environmental Protection Agency/EP&T, Inc. (Postdoctoral Advisor)

Ronald Kendall, Texas Tech (Thesis Advisor)

#### List of Collaborators Within Last 48 Months

Donald M. Norman, Louisiana State University

Steve Schwarzbach, US Fish & Wildlife Service

Chris Simpson, University of British Columbia/University of Minnesota

Jan White, Arizona Game & Fish

#### **CURRICULUM VITAE**

#### William N. Beckon

**Work Address** 

Home Address

U.S. Fish and Wildlife Service

1700 Madrone Lane

3310 El Camino Avenue, Suite 130

Davis, CA 95616-1465

Sacramento, CA 95821-6340

U.S.A.

Work Phone (916) 979-2112 Ext. 417

Home Phone (530) 757-6355 or 753-8262

Fax

(916) 979-2128

Electronic mail William Beckon@mail.fws.gov

#### **EDUCATION**

1990	Ph.D. in Zoology, University of California, Davis, Calif.
1988	M.A. in Zoology, University of California, Davis, Calif.
1971	B.A. cum laude in Physics, Pomona College, Claremont, Calif.

#### HONORS AND AWARDS

1996	Special Act Service Award, U.S. Fish and Wildlife Service
1995	On-the-Spot Award, U.S. Fish and Wildlife Service
1992-1994	National Science Foundation Fellowship (Japan Program)
1989-1990	The Explorers Club Exploration Fund grant
1988-1989	Jastro-Shields Research Scholarship
1987-1988	Frank M. Chapman Grant
1986-1987	Earle C. Anthony Fellowship
1986-1987	U.C. Davis Graduate Research Award
1986-1987	Jastro-Shields Research Scholarship
1985-1986	U.C. Davis Graduate Research Award
1985-1986	University of California Regent's Fellowship

#### WILDLIFE CONSERVATION/MANAGEMENT EXPERIENCE

1996-present Fish and Wildlife Biologist, U.S. Fish and Wildlife Service, Environmental Contaminants Division, Sacramento, California. Lead a team of refuge biologists and contaminants specialists that monitors fish and wildlife resources on the San Luis National Wildlife Refuge Complex in the western San Joaquin Valley to insure that the ecosystem is not harmed by agricultural drainwater. Conduct preacquisition surveys.

1994-1996 Fish and Wildlife Biologist, U.S. Fish and Wildlife Service, Endangered Species Division, Sacramento, California. Negotiated conservation measures to avoid or compensate for degradation and destruction of habitat of federally listed (endangered and threatened) species in compliance with the Endangered Species

Act. Reviewed environmental impact assessments.

#### TEACHING EXPERIENCE

1999 Instructor, California State University, Sacramento, for the upper division course:

Laboratory Investigations in Biology (two sections)

1990, 1991 Instructor, University of California, Davis, for the upper division course:

Phylogenetic Analysis of Vertebrate Structure.

1983-1989 Teaching assistant, University of California, Davis, for the following:

Laboratory in General Zoology: 1983-1985, 1987, 1988

Principles of Biology: 1984, 1989

Functional Analysis of Vertebrate Structure: 1985

Phylogenetic Analysis of Vertebrate Structure: 1986, 1987

1973-1974 Peace Corps Volunteer teacher of biology, mathematics, basic science, physics; head of mathematics department, All Saints High School, Labasa, Fiji.

#### FIELD RESEARCH EXPERIENCE

1992-1994 Planned, organized, secured funding for, and completed a two-year survey of the distribution of land birds in the Ryukyu archipelago, south of Japan. The survey was supported by a National Science Foundation fellowship.

Planned, organized, and carried out four expeditions to survey the land birds of the least known and most remote islands of the Fiji Archipelago in the S. W. Pacific. Each expedition was about four months in duration. Comprehensively surveyed more than 220 islands.

1975-1978 Conceived, organized, and completed a comprehensive study of the wildlife of the Fiji Islands. Secured the sponsorship of the Fiji Education Department, the National Trust for Fiji, and the U. S. Peace Corps for this project. The study culminated in coauthorship of a 400-page resource book for use in Fiji schools. The book summarized all that is known of the biology of the terrestrial vertebrates of Fiji. It is abundantly illustrated with original photographs, drawings, and range maps. In the course of field work for this study, I discovered a rare new species of fruit bat belonging to a little-known genus in remote montane rainforest on one of the islands. Coauthored the original description of this species.

#### CONSULTING EXPERIENCE

Surveyed snakes in remnant wetlands of the Central Valley of California to assess the status and distribution of the endangered giant garter snake. Worked for Beak Consultants Inc., 2717 Cottage Way, Suite 20, Sacramento, CA 95825.

- 1977 Compiled an environmental impact report for the Fiji Government on the proposed Monasavu Hydroelectric Scheme. In support of the report, surveyed the birds of the rainforest near Monasavu Falls, Vitilevu, Fiji.
- 1976-1977 Compiled an environmental impact report for the AMAX mining consortium on a prospective copper mine at Waisoi Creek, Namosi, Fiji. The report included a field survey of the terrestrial vertebrates in the vicinity of the proposed mine site.

#### **PUBLICATIONS**

- Beckon, W. N., M. Dunne, J. D. Henderson, J. P. Skorupa, S. E. Schwarzbach, and T. C. Maurer. 1998. Biological effects of the reopening of the San Luis Drain to carry subsurface irrigation drainwater. Appendix E in *Grassland Bypass Project Annual Report October 1*, 1996 through September 30, 1997. U. S. Bureau of Reclamation, Sacramento, California.
- Beckon, W. N. 1993. The effect of insularity on the diversity of land birds in the Fiji islands: implications for refuge design. *Oecologia* 94:318-329.
- Beckon, W. N. 1992. The giant Pacific geckos of the genus *Gehyra*: morphological variation, distribution and biogeography. *Copeia* 1992:443-460.
- Beckon, W. N. 1990. Patterns of colonization and distribution, the species-area relation, and other aspects of the biogeography of island vertebrates, with particular reference to the Fiji archipelago. (Ph.D. dissertation) University Microfilms International, Ann Arbor, Michigan.
- Beckon, W. N. 1990. First record of the Pectoral Sandpiper in Fiji. Notornis 37:106.
- Beckon, W. N. 1989. An undescribed form of owl in Fiji. Notornis 36:114-116.
- Beckon, W. N. 1987. Evidence of cooperative nest-excavation in the White-collared Kingfisher (*Halcyon chloris*) in Fiji. *Ibis* 129:391-392.
- Beckon, W. N. 1982. A breeding record of the Whistling Dove of Kadavu, Fiji. Notornis 29:1-7.
- Beckon, W. N. 1980. Gizzard structure of the Pacific Pigeon, *Ducula pacifica*. *Notornis* 27:302-303.
- Beckon, B. and R. Beckon. 1978. Fiji Scarlet Robin eating worms on the ground. *Notornis* 25:154-156.
- Hill, J. E. and W. N. Beckon. 1978. A new species of *Pteralopex* Thomas, 1888 (Chiroptera: Pteropodidae) from the Fiji Islands. *Bull. Br. Mus. Nat. Hist.* (Zool.) 34:65-82.

#### CONTINUING EDUCATION COURSES TAKEN

- 1998 (Oct.) Environmental Contaminants Field and Lab Techniques, 40 hours, National Conservation Training Center, U. S. Fish and Wildlife Service.
- 1998 (Sep.) Sampling Design for Field Studies, 40 hours, National Conservation Training Center,U. S. Fish and Wildlife Service.
- 1998 (May) Land Preacquisition Contaminants Survey: FWS Level 1 Procedures, National Conservation Training Center, U. S. Fish and Wildlife Service.
- 1998 (Mar.) Health and Safety Training for Hazardous Waste Workers, 40 hours, University of California.
- 1997 (Oct.) Principles and Techniques of Electrofishing, National Conservation Training Center, U. S. Fish and Wildlife Service.
- 1997 (Aug.) Water Quality Standards Academy, 40-hour course, United States Environmental Protection Agency.
- 1997 (May) An Approach to Ecosystem Conservation, National Conservation Training Center, U. S. Fish and Wildlife Service.
- 1997 (Mar.) Principles of Environmental Toxicology, 40-hour course, National Conservation Training Center, U. S. Fish and Wildlife Service.
- 1996 (Nov.) Natural History and Management of Bats in California and Nevada, 3-day workshop presented by the Western Section of the Wildlife Society.
- 1996 (Oct.) Complex Environmental Negotiations, National Education and Training Center, U. S. Fish and Wildlife Service.
- 1996 (Sep.) Writing NEPA [National Environmental Policy Act] Documents, National Education and Training Center, U. S. Fish and Wildlife Service.
- 1996 (Aug.) Planning Sustainable Conservation Projects, Center for Natural Lands Management.
- 1996 (Jun.) Ecology, Conservation, and Management of Vernal Pool Ecosystems, California Native Plant Society.
- 1996 (Feb.) Wetland Soils and Hydrology, National Education and Training Center, U. S. Fish and Wildlife Service.
- 1995 (Aug.) Endangered Species Act, Section 7: Consultations, National Education and Training Center, U. S. Fish and Wildlife Service.
- 1995 (Apr.) Endangered Species Act, Section 10: Habitat Conservation Planning, National Education and Training Center, U. S. Fish and Wildlife Service.
- 1995 (Feb.) Natural Resources Negotiation and Decision Making, Colorado State University.

# KIRK C. KLASING PROFESSOR OF AVIAN BIOLOGY

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(530) 752-1901
FAX (530) 752-0175
Email, KCKLASING @ucdavis.edu

**SOCIAL SECURITY#** 307-66-8838

**BIRTH DATE: 11/11/55** 

#### **EDUCATION**

1979-1982	Ph.D.	Cornell University	<b>Nutritional Biochemistry</b>
1977-1979	M.S.	Purdue University	Animal Science
1973-1977	B.S.	Purdue University	Agricultural Sciences

#### **EMPLOYMENT**

September 1998 – present. Professor of Avian Nutrition, Department of Animal Science, University of California, Davis, CA

January 1997 – June 1998. Professor and Chair, Department of Avian Sciences, University of California, Davis, CA

August 1991 – December 1996. Professor of Avian Nutrition, Department of Avian Sciences, University of California, Davis, CA

July 1987 - July, 1991. Associate Professor, Department of Avian Sciences, University of California, Davis, CA

Sept 1985 - June 1988. Assistant Professor, Department of Avian Sciences, University of California, Davis, CA

Jan 1985 - Aug 1985. Sabbatical leave, Human Nutrition and Nonruminant Animal Nutrition Labs, USDA, Beltsville, MD

1982 - Aug 1985. Assistant Professor of Animal Science, University of Illinois, Champaign, IL

**TOTALPUBLICATIONS:** 75 refereed; 115 non-refereed; 6 book chapters; 1 book: Comparative Avian Nutrition.

#### **CURRICULUM VITAE**

#### TEH, SWEE JOO, Ph.D.

Toxicopathology Consulting (President) 1302 Locust Place, Davis, CA. 95616 Phone: (530) 753-1950, (530) 400-7974

Fax: (530) 753-1950, E-mail: toxicopathology@netscape.net

#### SPECIALTY: Research & Environmental ToxicoPathologist

Write grants and contract proposals. Experience in acute and chronic toxicity, carcinogenesis, and endocrine disruptors' study in fish using biochemical, pathological, physiological, stereological, and ultrastructural analysis. Application of histopathologic biomarkers in assessing & evaluating the deleterious effects of environmental contaminants & endocrine disruptors on resident fish & shellfish population. Developing & incorporating enzyme- & immuno-histochemistry methods & techniques for use in histopathologic biomarkers work. Integration of histopathologic biomarkers with biomarkers at other levels of biological organization to determine the health of the ecosystems. Experiences in experimental designed and maintaining exposed animals (>2000) for biomarkers approach. Write and submit final reports to contract manager. Published research findings in respective scientific journals.

#### **PUBLICATIONS (11 0f 22):**

- 1. Braunbeck, T., Teh, S.J., Lester, S.M. and Hinton, D.E. Ultrastructural alterations in hepatocytes of medaka (Oryzias latipes) exposed to diethylnitrosamine. Toxicol. Pathol. 20:179-196. 1992.
- 2. Teh, S.J. and Hinton, D.E. Detection of enzyme histochemical markers of hepatic preneoplasia and neoplasia in medaka (Oryzias latipes). Aquat. Toxicol. 24:163-182. 1993.
- 3. Lester, S.M., Braunbeck, T.A., Teh, S.J., Stegeman, J.J., Miller, M.R. and Hinton, D.E. Hepatic cellular distribution of cytochrome P-450 1A1 in rainbow trout (Oncorhynckus mykiss): an immunohisto- and cytochemical study. Cancer Res. 53:3701-3706. 1993.
- 4. Gawlicka, A., Teh, S.J., Hung, S.S.O., Hinton, D.E. and de la Noüe, J. Histological and histochemical changes in the digestive tract of white sturgeon larvae during ontogeny. Fish Physio. Biochem. 14:357-371, 1995.
- 5. Teh, S.J. Cellular aspects of hepatocarcinogenesis in medaka (oryzias latipes): dynamics of histogenesis and gender-related sensitivity. Dissertation. 175 pages. 1996.
- 6. Teh, S.J., Adams, S.M. and Hinton, D.E. Histopathologic biomarkers of anthropogenic stress in resident redbreast sunfish (Lepomis auritus) and largemouth bass (Micropterus salmoides Lacèpède) from contaminant impacted sites. Aquat. Toxicol. 37: 51-70.1997.
- 7. Teh, S.J. and Hinton, D.E. Protecting Malaysia's aquatic resources: Biomarkers of exposure and effect in resident fishes. Malaysia Science & Technology Congress, 1997.
- 8. Teh, S.J. and Hinton, D.E. Gender-specific growth and hepatic neoplasia in medaka (Oryzias latipes). Aquat. Toxicol. 41: 141-159. 1998.
- 9. Teh, S.J. and Hinton, D.E. Application of biomarkers in assessing and evaluating the effects of environmental contaminants on resident fishes. 2nd International Conference on Marine Pollution & Ecotoxicology. Jun 10-14,1998.
- 10. Adams, S.M., Bevelhimer, M.S., Greeley, M.S., Levine, D.A. and Teh, S.J. Ecological Risk Assessment in a Large River-Reservoir: 6. Bioindicators of Fish Population Health. Environmental Toxicology & Chemistry, Vol 18, 4:628-640. 1999.
- 11. Teh, S.J., Clark, S.L., Brown, C. and Hinton, D.E. Enzymatic and histopathologic biomarkers as indicator of environmental contaminant exposure and effect in Asian clam (Potamocorbula amurensis). Bivalve Biomarkers Workshop. In press.

BERKELEY · DAVIS · IRVINE · LOS ANGELES · RIVERSIDE · SAN DIEGO · SAN FRANCISCO



SANTA BARBARA · SANTA CRUZ

INSTITUTE OF TOXICOLOGY AND ENVIRONMENTAL HEALTH (530) 752-1340 FAX: (530) 752-5300

ONE SHIELDS AVENUE DAVIS, CALIFORNIA 95616-8615

April 14, 1999

Merced County Board of Supervisors 2222 M Street Merced, CA 95340

Dear Board Members:

This letter is to notify you of our intent to submit a proposal entitled "Impacts of Dietary Selenium on Giant Garter Snake Populations in the Sacramento-San Joaquin Watershed" to the CALFED Bay Delta Program.

If funded this proposal would start October 1, 1999. Please feel free to contact me if you have any questions or concerns. I may be reached by telephone at (530) 754-8536 or by facsimile (530) 752-5300 or e-mail mfwolfe@ucdavis.edu.

Sincerely,

Marti J. Walfe Marti F. Wolfe, Ph.D. BERKELEY · DAVIS · IRVINE · LOS ANGELES · RIVERSIDE · SAN DIEGO · SAN FRANCISCO



SANTA BARBARA • SANTA CRUZ

INSTITUTE OF TOXICOLOGY AND ENVIRONMENTAL HEALTH (530) 752-1340 FAX: (530) 752-5300

ONE SHIELDS AVENUE DAVIS, CALIFORNIA 95616-8615

April 14, 1999

Planning and Community Development 2222 M Street Merced, CA 95340

To Whom It May Concern:

This letter is to notify you of our intent to submit a proposal entitled "Impacts of Dietary Selenium on Giant Garter Snake Populations in the Sacramento-San Joaquin Watershed" to the CALFED Bay Delta Program.

If funded this proposal would start October 1, 1999. Please feel free to contact me if you have any questions or concerns. I may be reached by telephone at (530) 754-8536 or by facsimile (530) 752-5300 or e-mail mfwolfe@ucdavis.edu.

Sincerely,

Marti J. Walfe Marti F. Wolfe, Ph.D.

# Attachment D Terms and Conditions for State (CALFED) Funds

This section provides contract terms and conditions applicable to contracts issued under State (CALFED) funds. The specific terms and conditions may vary, depending on the applicant category (State entities, Federal and other public entities, non-profit organizations, and private entities), and the type of project (Public Works/Construction or Services), as identified in Table D-1. Specific documents that should be submitted with the proposal are shown in Table D-1.

The general terms and conditions which will apply to Category III contracts funded with Proposition 204 funding are provided below.

In addition to these general terms and conditions, specific additional standard clauses will be applicable depending on the type of project and applicant category. Table D-1 provides a summary of those standard clauses for different types of projects and different applicant categories. Those standard clauses are provided at the end of this attachment.

- 1. Term of Contract: The term of the agreement will be dependent on the project and may range from 1 to 3 years. The agreement shall not become effective until fully executed by the parties and approved by the Department of General Services.
- 2. Payment Schedule: No funds will be disbursed by State or National Fish and Wildlife Foundation (NFWF) to Contractor without 1) an executed copy of the Contract, 2) receipt of an original invoice with supporting documentation, and 3) receipt and satisfactory completion of deliverables and/or phases of work as set forth in the agreement, including quarterly financial and programmatic reports. Payments shall be in arrears within 30 days of receipt of invoice by CALFED.
- 3. Budget Variances: Variances which exceed ten percent of a project task's approved budgeted amount should have approval in advance, with written explanations of programmatic changes to cover such variances but must remain within the maximum contract amount.
- 4. Subcontracts: Contractors are responsible for all subcontracted work. Subcontract terms and conditions must include all applicable contract terms and conditions as presented herein. Subcontractor agreements require approval by the State or NFWF, unless the subcontract was included and approved as part of the main proposal. Any amendments to subcontract must be approved by the State or NFWF. In obtaining subcontracts, contractor must obtain at least 3 competitive bids for all subcontracted work, or comply with the provisions of Government Code Section 4525 et seq., if applicable, or submit written justification for and obtain the State's or NFWF's approval of non-compliance with these requirements.
- 5. Substitution: Should the State or NFWF be dissatisfied with the work of subcontractors or employees of the contractor, the State or NFWF may require the contractor to substitute different qualified subcontractors or employees. The State or NFWF must approve such substitutions in advance of providing applicable services.
- 6. Conflict of Interest: Contractor shall comply with all applicable State laws and rules pertaining to conflict of interest, including but not limited to Government Code 1090 and Public Contract Code 10410 and 10411.
- 7. Standard of Professionalism: Contractor shall conduct all work consistent with the professional standards for the industry and type of work being performed under the contract.
- 8. Rights in Data: All data and information obtained and/or received under contract shall be in the public domain. Contractor shall have the right to disclose, disseminate and use, in whole or part, any

final form data and information received, collected and developed under this agreement, subject to inclusion of appropriate acknowledgment of credit to the State or NFWF, CALFED, and all cost sharing partners for their financial support. Use of draft data requires pre-approval by State or NFWF and CALFED. Contractor shall not sell or grant rights to a third party who intends to sell such product as a profit-making venture.

- 9. Indemnification: The Contractor agrees to indemnify, defend and hold harmless the CALFED agencies, the State of California, the Resources Agency, Department of Water Resources, and National Fish and Wildlife Foundation and their officers, agents and employees from any and all claims and losses accruing or resulting to any or all contractors, subcontractors, material persons, laborers, and any other person, firm or corporation furnishing or supplying work services, materials or supplies in connection with the performance of this contract, and from any and all claims and losses accruing or resulting to any person, firm or corporation who may be injured or damaged by the Contractor in the performance of this contract.
- 10. Independent Status: The Contractor, and the officers, agents and employees of Contractor, in the performance of the contract, shall act in an independent capacity and not as officers or employees or agents of the State of California, NFWF, CALFED Agencies, the Resources Agency, or Department of Water Resources.
- 11. Termination Clause: The State or NFWF may terminate this agreement and be relieved of the payment of any consideration to Contractor should Contractor fail to perform the covenants herein contained at the time and in the manner herein provided. In the event of such termination the State or NFWF may proceed with the work in any manner deemed proper by the State. The cost to the State shall be deducted from any sum due the Contractor under this agreement, and the balance, if any shall be paid the Contractor upon demand.
- 12. Assignment: Without the written consent of the State, this agreement is not assignable by Contractor either in whole or in part.
- 13. Integration Clause: No alteration or variation of the terms of this contract shall be valid unless made in writing and signed by the parties hereto, and no oral understanding or agreement not incorporated herein, shall be binding on any of the parties hereto. This contract may be amended upon mutual written agreement of the parties and approved by State or NFWF and CALFED.
- 14. Consideration: The consideration to be paid Contractor as provided herein, shall be in compensation for all of the Contractor's expenses incurred in the performance hereof, including travel and per diem, unless otherwise expressly so provided.
- 15. Dispute Resolution: Any claim that Contractor may have regarding the performance of this agreement including, but not limited to, claims for additional compensation or extension of time, shall be submitted to the Executive Director, CALFED, within thirty days of its accrual, CALFED and Contractor shall then attempt to negotiate a resolution of claim and process an amendment to this agreement to implement the terms of any such resolution.
- 16. Time is of the essence in this agreement.

State of California

#### DEPARTMENT OF WATER RESOURCES

The Resources Agency
greement No.
Exhibit

#### STANDARD CLAUSES -CONTRACTS WITH PUBLIC ENTITIES

Workers' Compensation Clause. Contractor affirms that it is aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and Contractor affirms that it will comply with such provisions before commencing the performance of the work under this contract.

Nondiscrimination Clause. During the performance of this contract, the recipient, Contractor and its subcontractors shall not deny the contract's benefits to any person on the basis of religion, color, ethnic group identification, sex, age, physical or mental disability, nor shall they discriminate unlawfully against any employee or applicant for employment because of race, religion, color, national origin, ancestry, physical handicap, mental disability, medical condition, marital status, age (over 40), or sex. Contractor shall insure that the evaluation and treatment of employees and applicants for employment are free of such discrimination. Contractor shall comply with the provisions of the Fair Employment and Housing Act (Government Code Section 12900 et seq.), the regulations promulgated thereunder (California Administrative Code, Title 2, Sections 7285.0 et seq.), the provisions of Article 9.5, Chapter 1, Part 1, Division 3, Title 2 of the Government Code (Government Code Sections 11135 - 11139.5), and the regulations or standards adopted by the awarding of Article 9.5, Chapter 1, Part 1, Division 3, Title 2 of the Government Code (Government Code Sections 11135 - 11139.5), and the regulations or standards adopted by the awarding State agency to implement such article. Contractor or recipient shall permit access by representatives of the Department of Fair Employment and Housing and the awarding State agency upon reasonable notice at any time during the normal business hours, but in no case less than 24 hours' notice, to such of its books, records, accounts, other sources of information and its facilities as said Department or Agency shall require to ascertain compliance with this clause. Recipient, Contractor and its subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement. The Contractor shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform wo

Availability of Funds. Work to be performed under this contract is subject to availability of funds through the State's normal budget process.

Audit Clause. For contracts in excess of \$10,000, the contracting parties shall be subject to the examination and audit of the State Auditor for a period of three years after final payment under the contract. (Government Code Section 8546.7).

Payment Retention Clause. Ten percent of any progress payments that may be provided for under this contract shall be withheld per Public Contract Code Sections 10346 and 10379 pending satisfactory completion of all services under the contract.

Reimbursement Clause. If applicable, travel and per diem expenses to be reimbursed under this contract shall be at the same rates the State provides for unrepresented employees in accordance with the provisions of Title 2, Chapter 3, of the California Code of Regulations. Contractor's designated headquarters for the purpose of computing such expenses shall be:

Drug-Free Workplace Certification. By signing this contract, the Contractor or grantee hereby certifies under penalty of perjury under the laws of the State of California that the Contractor or grantee will comply with the requirements of the Drug-Free Workplace Act of 1990 (Government Code Section 8350 et seq.) and will provide a drug-free workplace by taking the following actions:

- 1. Publish a statement notifying employees that unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited and specifying actions to be taken against employees for violations.
- 2. Establish a Drug-Free Awareness Program to inform employees about all of the following:
  - (a) The dangers of drug abuse in the workplace,
  - (b) The person's or organization's policy of maintaining a drug-free workplace,
  - (c) Any available counseling, rehabilitation and employee assistance programs, and
  - (d) Penalties that may be imposed upon employees for drug abuse violations.
- 3. Every employee who works on the proposed contract or grant:
  - (a) Will receive a copy of the company's drug-free policy statement, and
  - (b) Will agree to abide by terms of the company's statement as a condition of employment on the contract or grant.

This contract or grant may be subject to suspension of payments or termination, or both, and the Contractor or grantee may be subject to debarment if the department determines that: (1) the Contractor or grantee has made a false certification, or (2) the Contractor or grantee violates the certification by failing to carry out the requirements noted above.

Americans With Disabilities Act. By signing this contract, Contractor assures the State that it complies with the Americans With Disabilities Act (ADA) of 1990, (42 U.S.C. 12101 et seq.), which prohibits discrimination on the basis of disability, as well as all applicable regulations and guidelines issued pursuant to the ADA.

Former State Employees: a) For the two-year period from the date he or she left State employment, no former State officer or employee may enter into a contract in which he or she engaged in any of the negotiations, transactions, planning, arrangements or any part of the decision-making process relevant to the contract while employed in any capacity by any State agency. b) For the twelve-month period from the date he or she left State employment, no former State officer or employee may enter into a contract with any State agency if he or she was employed by that State agency in a policy-making position in the same general subject area as the proposed contract within the twelve-month period prior to his or her leaving State service.

THE Resou	rces Agency
greement No.	

Exhibit

#### STANDARD CLAUSES -SERVICE & CONSULTANT SERVICE CONTRACTS FOR \$5,000 & OVER WITH NONPUBLIC ENTITIES

Workers' Compensation Clause. Contractor affirms that it is aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and Contractor affirms that it will comply with such provisions before commencing the performance of the work under this contract.

National Labor Relations Board Clause. In accordance with Public Contract Code Section 10296, Contractor declares under penalty of perjury that no more than one final, unappealable finding of contempt of court by a federal court has been issued against the Contractor within the immediately preceding two-year period because of Contractor's failure to comply with an order of a federal court which orders Contractor to comply with an order of the national Labor Relations Board.

Nondiscrimination Clause. During the performance of this contract, the recipient, Ccontractor and its subcontractors shall not deny the contract's benefits to any person on the basis of religion, color, ethnic group identification, sex, age, physical or mental disability, nor shall they discriminate unlawfully against any employee or applicant for employment because of race, religion, color, national origin, ancestry, physical handicap, mental disability, medical condition, marital status, age (over 40), or sex. Contractor shall insure that the evaluation and treatment of employees and applicants for employment are free of such discrimination. Contractor shall comply with the provisions of the Fair Employment and Housing Act (Government Code Section 12900 et seq.), the regulations promulgated thereunder (California Administrative Code, Title 2, Sections 7285.0 et seq.), the provisions of Article 9.5, Chapter 1, Part 1, Division 3, Title 2 of the Government Code (Government Code Sections 11135 - 11139.5), and the regulations or standards adopted by the awarding State agency to implement such article. Contractor or recipient shall permit access by representatives of the Department of Fair Employment and Housing and the awarding State agency upon reasonable notice at any time during the normal business hours, but in no case less than 24 hours' notice, to such of its books, records, accounts, other sources of information and its facilities as said Department or Agency shall require to ascertain compliance with this clause. Recipient, Contractor and its subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement. The Contractor shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform work under the contract.

Statement of Compliance. The Contractor's signature affixed hereon and dated shall constitute a certification under penalty of perjury under the laws of the State of California that the Contractor has, unless exempted, complied with the nondiscrimination program requirements of Government Code Section 12990 and Title 2, California Code of Regulations, Section 8103.

Performance Evaluation. For consulting service agreements, Contractor's performance under this contract will be evaluated after completion. A negative evaluation will be filed with the Department of General Services.

Availability of Funds. Work to be performed under this contract is subject to availability of funds through the State's normal budget process.

Audit Clause. For contracts in excess of \$10,000, the contracting parties shall be subject to the examination and audit of the State Auditor for a period of three years after final payment under the contract. (Government Code Section 8546.7).

Payment Retention Clause. Ten percent of any progress payments that may be provided for under this contract shall be withheld per Public Contract Code Sections 10346 and 10379 pending satisfactory completion of all services under the contract.

Reimbursement Clause. If applicable, travel and per diem expenses to be reimbursed under this contract shall be at the same rates the State provides for unrepresented employees in accordance with the provisions of Title 2, Chapter 3, of the California Code of Regulations. Contractor's designated headquarters for the purpose of computing such expenses shall be:

'Disabled Veteran Business Enterprise Participation Requirement Audit Clause. Contractor or vendor agrees that the awarding department or its delegates will have the right to review, obtain, and copy all records pertaining to performance of the contract. Contractor or vendor agrees to provide the awarding department or its delegatee access to its premises, upon reasonable notice, during normal business hours for the purpose of interviewing employees and inspecting and copying such books, records, accounts, and other material that may be relevant to a matter under investigation for the purpose of determining compliance with Public Contract Code Section 10115 et seq. Contractor or vendor further agrees to maintain such records for a period of three (3) years after final payment under the contract. Title 2 CCR Section 1896.75.

Priority Hiring Considerations. For contracts in excess of \$200,000, the Contractor shall give priority consideration in filling vacancies in positions funded by the contract to qualified recipients of aid under Welfare and Institutions Code Section 11200. (Public Contract Code Section 10353).

Drug-Free Workplace Certification. By signing this contract, the Contractor or grantee hereby certifies under penalty of perjury under the laws of the State of California that the Contractor or grantee will comply with the requirements of the Drug-Free Workplace Act of 1990 (Government Code Section 8350 et seq.) and will provide a drug-free workplace by taking the following actions:

- 1. Publish a statement notifying employees that unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited and specifying actions to be taken against employees for violations.
- 2. Establish a Drug-Free Awareness Program to inform employees about all of the following:
  - (a) The dangers of drug abuse in the workplace,
  - (b) The person's or organization's policy of maintaining a drug-free workplace,
  - (c) Any available counseling, rehabilitation and employee assistance programs, and
  - (d) Penaltics that may be imposed upon employees for drug abuse violations.
- 3. Every employee who works on the proposed contract or grant:
  - (a) Will receive a copy of the company's drug-free policy statement, and
  - (b) Will agree to abide by terms of the company's statement as a condition of employment on the contract or grant.

This contract or grant may be subject to suspension of payments or termination, or both, and the Contractor or grantee may be subject to debarment if the department determines that: (1) the Contractor or grantee has made a false certification, or (2) the Contractor or grantee violates the certification by failing to carry out the requirements noted above.

Antitrust Claims. In submitting a bid to a public purchasing body, the bidder offers and agrees that if the bid is accepted, it will assign to the purchasing body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, materials, or services by the bidder for sale to the purchasing body pursuant to the bid. Such assignment shall be made and become effective at the time the purchasing body tenders final payment to the bidder. See Government Code Section 4552.

If an awarding body or public purchasing body received, either through judgment or settlement, a monetary recovery for a cause of action assigned under this chapter, the assignor shall be entitled to receive reimbursement for actual legal costs incurred and may, upon demand, recover from the public body any portion of the recovery, including treble damages, attributable to overcharges that were paid by the assignor but were not paid by the public body as part of the bid price, less the expenses incurred in obtaining that portion of the recovery. See Government Code Section 4553.

Upon demand in writing by the assignor, the assignee shall, within one year from such demand, reassign the cause of action assigned under this part if the assignor has been or may have been injured by the violation of law for which the cause of action arose and (a) the assignee has not been injured thereby, or (b) the assignee declines to file a court action for the cause of action. See Government Code Section 4554.

Americans With Disabilities Act. By signing this contract, Contractor assures the state that it complies with the Americans With Disabilities Act (ADA) of 1990, (42 U.S.C. 12101 et seq.), which prohibits discrimination on the basis of disability, as well as all applicable regulations and guidelines issued pursuant to the ADA.

Corporate Qualifications To Do Business in California. Contractor must be currently qualified to do business in California as defined by the Revenue & Taxation Code, Section 23101 unless exempted. Both domestic and foreign corporations (those incorporated outside of California) must be in good standing in order to be qualified to do business in California.

Former State Employees: a) For the two-year period from the date he or she left State employment, no former State officer or employee may enter into a contract in which he or she engaged in any of the negotiations, transactions, planning, arrangements or any part of the decision-making process relevant to the contract while employed in any capacity by any State agency. b) For the twelve-month period from the date he or she left State employment, no former State officer or employee may enter into a contract with any State agency if he or she was employed by that State agency in a policy-making position in the same general subject area as the proposed contract within the twelve-month period prior to his or her leaving State service.

Agreement No	_	
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#### ADDITIONAL STANDARD CLAUSES

Recycled Materials. Contractor hereby certifies under penalty of perjury that \_\_\_\_\_ (enter value or "0" here) percent of the materials, goods and supplies offered or products used in the performance of this Agreement meets or exceeds the minimum percentage of recycled material as defined in Sections 12161 and 12200 of the Public Contract Code.

Severability. If any provision of this Agreement is held invalid or unenforceable by any court of final jurisdiction, it is the intent of the parties that all other provisions of this Agreement be construed to remain fully valid, enforceable, and binding on the parties.

Governing Law. This Agreement is governed by and shall be interpreted in accordance with the laws of the State of California.

Y2K Language. The Contractor warrants and represents that the goods or services sold, leased, or licensed to the State of California, its agencies, or its political subdivisions, pursuant to this Agreement are "Year 2000 compliant." For purposes of this Agreement a good or service is Year 2000 compliant if it will continue to fully function before, at, and after the Year 2000 without interruption and, if applicable, with full ability to accurately and unambiguously process, display, compare, calculate, manipulate, and otherwise utilize date information. This warranty and representation supersedes all warranty disclaimers and limitations and all limitations on liability provided by or through the Contractor.

Child Support Compliance Act. For any Agreement in excess of \$100,000, the Contractor acknowledges in accordance therewith, that:

- 1. The Contractor recognizes the importance of child and family support obligations and shall fully comply with all applicable state and federal laws relating to child and family support enforcement, including, but not limited to, disclosure of information and compliance with earnings assignment orders, as provided in Chapter 8 (commencing with Section 5200) of Part 5 of Division 9 of the Family Code; and
- The Contractor, to the best of its knowledge, is fully complying with the earnings assignment orders of all employees and is providing the names of all new employees to the New Hire Registry maintained by the California Employment Development Department.

State of California

#### DEPARTMENT OF WATER RESOURCES

The Resources Agency
Agreement No.
Exhibit

STANDARD CLAUSES -INTERAGENCY AGREEMENTS

Audit Clause. For contracts in excess of \$10,000, the contracting parties shall be subject to the examination and audit of the State Auditor for a period of three years after final payment under the contract. (Government Code Section 8546.7).

Availability of Funds. Work to be performed under this contract is subject to availability of funds through the State's normal budget process.

Interagency Payment Clause. For services provided under this agreement, charges will be computed in accordance with State Administrative Manual Section 8752 and 8752.1.

Termination Clause. Either State agency may terminate this contract upon 30 days advance written notice. The State agency providing the services shall be reimbursed for all reasonable expenses incurred up to the date of termination.

Severability. If any provision of this Agreement is held invalid or unenforceable by any court of final jurisdiction, it is the intent of the parties that all other provisions of this Agreement be construed to remain fully valid, enforceable, and binding on the parties.

Y2K Language. The Contractor warrants and represents that the goods or services sold, leased, or licensed to the State of California, its agencies, or its political subdivisions, pursuant to this Agreement are "Year 2000 compliant" For purposes of this Agreement, a good or service is year 2000 compliant if it will continue to fully function before, at, and after the Year 2000 without interruption and, if applicable, with full ability to accurately and unambiguously process, display, compare, calculate, manipulate, and otherwise utilize date information. This warranty and representation supersedes all warranty disclaimers and limitations and all limitations on liability provided by or through the Contractor.

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State of California

The resources Agency
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# STANDARD CLAUSES CONTRACTS WITH THE UNITED STATES

Workers' Compensation Clause. Contractor affirms that it is aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and Contractor affirms that it will comply with such provisions before commencing the performance of the work under this contract. This provision shall apply to the extent provided by federal laws, rules and regulations.

Claims Dispute Clause. Any claim that Contractor may have regarding the performance of this agreement including, but not limited to, claims for additional compensation or extension of time, shall be submitted to the Director, Department of Water Resources, within thirty days of its accrual. State and Contractor shall then attempt to negotiate a resolution of such claim and process an amendment to this agreement to implement the terms of any such resolution. However, Contractor does not waive any rights or duties it may have as may be provided by federal laws, rules and regulations.

Nondiscrimination Clause. During the performance of this contract, the recipient, contractor and its subcontractors shall not deny the contract's benefits to any person on the basis of religion, color, ethnic group identification, sex, age, physical or mental disability, nor shall they discriminate unlawfully against any employee or applicant for employment because of race, religion, color, national origin, ancestry, physical handicap, mental disability, medical condition, marital status, age (over 40), or sex. Contractor shall insure that the evaluation and treatment of employees and applicants for employment are free of such discrimination. Contractor shall comply with the provisions of the Fair Employment and Housing Act (Government Code Section 12900 et seq.), the regulations promulgated thereunder (California Administrative Code, Title 2, Sections 7285.0 et seq.), the provisions of Article 9.5, Chapter 1, Part 1, Division 3, Title 2 of the Government Code (Government Code Sections 11135 - 11139.5), and the regulations or standards adopted by the awarding State agency to implement such article. Contractor or recipient shall permit access by representatives of the Department of Fair Employment and Housing and the awarding Sate agency upon reasonable notice at any time during the normal business hours, but in no case less than 24 hours' notice, to such of its books, records, accounts, other sources of information and its facilities as said Department or Agency shall require to ascertain compliance with this clause. Recipient, Contractor and its subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement. The Contractor shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform work under the contract.

Availability of Funds. Work to be performed under this contract is subject to availability of funds through the State's normal budget process.

Audit Clause. For contracts in excess of \$10,000, unless otherwise provided by federal laws, rules or regulations, the contracting parties shall be subject to the examination and audit of the State Auditor for a period of three years after final payment under the contract. (Government Code Section 8546.7).

Payment Retention Clause. Ten percent of any progress payments that may be provided for under this contract shall be withheld per Public Contract Code Sections 10346 and 10379 pending satisfactory completion of all services under the contract.

Reimbursement Clause.	If applicable, travel and per diem expenses	to be reimbursed under this contract	shall be at the	same rates the State provides for	
unrepresented employees	in accordance with the provisions of Title 2,	Chapter 3, of the California Code of	Regulations.	Contractor's designated headquarte	:rs
	ting such expenses shall be:				

Americans With Disabilities Act. By signing this contract, Contractor assures the State that it complies with the Americans With Disabilities Act (ADA) of 1990, (42 U.S.C. 12101 et seq.), which prohibits discrimination on the basis of disability, as well as all applicable regulations and guidelines issued pursuant to the ADA.

Conflict of Interest. Current State Employees: a) No State officer or employee shall engage in any employment, activity or enterprise from which the officer or employee receives compensation or has a financial interest and which is sponsored or funded by any State agency, unless the employment, activity or enterprise is required as a condition of regular State employment. b) No State officer or employee shall contract on his or her own behalf as an independent contractor with any State agency to provide goods or services.

Former State Employees: a) For the two-year period from the date he or she left State employment, no former State officer or employee may enter into a contract in which he or she engaged in any of the negotiations, transactions, planning, arrangements or any part of the decision-making process relevant to the contract while employed in any capacity by any State agency. b) For the twelve-month period from the date he or she left State employment, no former State officer or employee may enter into a contract with any State agency if he or she was employed by that State agency in a policy-making position in the same general subject area as the proposed contract within the twelve-month period prior to his or her leaving State service.

The resources Agency	
greement No.	
Exhibit	

## STANDARD CLAUSES GENERAL CONDITIONS FOR PUBLIC WORKS CONTRACTS

LICENSE. No bidder may bid on work for which it is not properly licensed by the Contractor's State License Board. Joint Venture bidders must possess a Joint Venture License. Bidders for this Agreement must have classification(s) of contractor's license, provide license number and expiration date and certify under penalty of perjury that the foregoing is true and correct.

**EXAMINATION OF BID DOCUMENTS AND SITE.** Bidder shall carefully examine site of work, plans and specifications. The bidder shall investigate conditions, character, quality of surface, or subsurface materials or obstacles to be encountered. No additions to the contract amount will be made because of the Contractor's failure to examine the site of work, plans and specifications.

SUBCONTRACTORS. (See Public Contract Code Section 4104.) The bidder shall set forth in its bid:

- The name and business address of each subcontractor who will perform work or labor or render services in an amount in excess of one-half of one percent (.5%) of the General Contractor's total bid; and
- b. The portion of work to be done by each subcontractor, (See Public Contract Code Section 4104.)

**PAYMENT BOND.** The Contractor shall furnish, concurrently with signing the contract, a Payment Bond to Accompany Construction Contract, Standard Form 807, in an amount not less than fifty percent (50%) of the amount of the contract when its bid exceeds \$5000. Such bond shall be executed by the Contractor and a corporate surety approved by the State.

WORKERS' COMPENSATION INSURANCE CERTIFICATION. Upon execution of the contract, the Contractor shall provide the State either with a certificate of insurance issued by an insurance carrier licensed to write workers' compensation insurance in the State of California, including the name of the carrier and date of expiration of the insurance, or a certificate of consent to self insure issued by the Director of the Department of Industrial Relations.

PREVAILING WAGE. It is hereby mutually agreed that the Contractor shall forfeit to the State a penalty of \$50 for each calendar day, or portion thereof, for each worker paid by it, or subcontractor under it, less than the prevailing wage so stipulated. In addition the Contractor further agrees to pay to each worker the difference between the actual amount paid for each calendar day, or portion thereof, and the stipulated prevailing wage rate for the same. This provision shall not apply to properly registered apprentices.

MAXIMUM HOURS. It is further agreed that the maximum hours a worker is to be employed is limited to 8 hours a day and 40 hours a week and the Contractor shall forfeit, as a penalty to the State, \$25 for each worker employed in the execution of the contract for each calendar day during which a worker is required or permitted to labor more than 8 hours in any calendar day or more than 40 hours in any calendar week in violation of Labor Code Sections 1810-1815, inclusive.

TRAVEL AND SUBSISTENCE PAYMENTS. Travel and subsistence payments shall be paid to each worker needed to execute the work, as such travel and subsistence payments are defined in the applicable collective bargaining agreements filed in accordance with Labor Code Section 1773.8.

**APPRENTICES.** Properly registered apprentices may be employed in the prosecution of the work. Every such apprentice shall be paid the standard wage paid to apprentices under the regulations of the craft or trade at which he or she is employed, and shall be employed only at the work of the craft or trade to which he or she is registered. The Contractor and each subcontractor must comply with the requirements of Labor Code Section 1777.5 and any related regulations regarding the employment of registered apprentices.

SUBSTITUTIONS. Pursuant to Section 3400 of the Public Contract Code, should the Contractor seek to substitute a brand of materials other than specified, the Contractor shall submit data substantiating the request for substitution of "an equal" item. The substantiating data must be presented for approval within thirty-five (35) days after the award of the agreement. The State shall be the sole judge as to the comparative quality and suitability of "an equal" item.

ANTI-TRUST CLAIMS. The Contractor offers and agrees and will require all of his subcontractors and suppliers to agree to assign to the awarding body all rights, title, and interest in and to all causes of action they may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act [Chapter 2 (commencing with Sec. 165700) of Part 2 of Division 7 of the Business and Professions Code], arising from purchases of goods, services, or materials, pursuant to the public works contract or the subcontract. The assignment made by the Contractor and all additional assignments made by the subcontractors and suppliers shall be deemed to have been made and will become effective at the time the awarding body tenders final payment to the Contractor, without further acknowledgment or the necessity of tendering to the awarding body any written assignments.

If an awarding body receives, either through judgment or settlement, a monetary recovery for a cause of action assigned under Government Code Sections 4550-4554, the assignor shall be entitled to receive reimbursement for actual legal costs incurred and may, upon demand, recover from the public body any portion of the recovery, including treble damages, attributable to overcharges that were paid by the assignor but were not paid by the public body as part of the bid price, less the expenses incurred in obtaining that portion of the recovery.

Upon demand in writing by the assignor, the assignee shall, within one year from such demand, reassign the cause of action assigned under Government Code Sections 4550-4554, if the assignor has been or may have been injured by the violation of law for which the cause of action arose and (a) the assignee has not been injured thereby, or (b) the assignee declines to file a court action for the cause of action.

#### PROGRESS PAYMENTS

- a. Ten percent of any progress payments that may be provided for under this contract shall be withheld pending satisfactory completion of all services under the contract. The Contractor may substitute securities for such retentions and receive any interest accrued provided in Section 22300 of the Public Contract Code.
- b. No progress payments shall be made unless the Contractor, upon execution of the contract, furnishes a faithful performance bond for not less than one-half the total amount payable under the contract.

PAYROLL RECORDS. The Contractor and each subcontractor shall comply with Labor Code Section 1776 regarding payroll records.

NONCOLLUSION AFFIDAVIT. All bidders shall submit with their bids a signed and notarized Noncollusion Affidavit (DWR 4206).

LABOR CODE PROVISIONS. Pursuant to Sections 1770 et seq. of the California Labor Code, the Director of the State Department of Industrial Relations has made the general prevailing wage determination covering the locality where work for this contract is to be performed. A copy of the publication General Prevailing Wage Rates is on file for inspection at the State Department of Water Resources, Contract Services Office, 1416 Ninth Street, Sacramento, CA.

The Contractor agrees to post a copy of the General Prevailing Wage Determination for the locality of each job site. The Contractor also agrees to comply with all requirements of the California Labor Code and to pay the forfeiture penalties and monies which may become due as provided in Sections 1775 and 1813 of that Code.

UNDOCUMENTED ALIENS. No bidder or Contractor shall be eligible to bid for or receive a public works or purchase contract, who has, in the preceding five years, been convicted of violating a State or federal law respecting the employment of undocumented aliens.

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#### DEPARTMENT OF WATER RESOURCES

The Resources Agency
Agreement No
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# STANDARD CLAUSES - INSURANCE REQUIREMENTS

Contractor shall furnish to the State a certificate of insurance stating that here is liability insurance presently in effect for the contractor of not less than \$1,000,000 per occurrence for bodily injury and property damage liability combined.

The certificate of insurance must include the following provisions:

- 1. The insurer will not cancel the insured's coverage without 30 days' prior written notice to the State.
- 2. The State of California, it officers, agents, employees, and servants are included as additional insured, but only in so far as the operation under this contract are concerned.

Contractor agrees that the bodily injury liability insurance herein provided for shall be in effect at all times during the term of this contract. In the event said insurance coverage expires at any time or times during the time of this contract, contractor agrees to provide at least thirty (30) days prior to said expiration date, a new certificate of insurance evidencing insurance coverage as provided for herein for not less that the remainder of the term of the contract, or for a period of not less than one (1) year. New certificates of insurance are subject to the approval of the Department of General Services and contractor agrees that no work or services shall be per formed prior to the giving of such approval. In the even contractor fails to keep in effect at all times insurance coverage as herein provided, State may, in addition to any other remedies it may have, terminate this contract upon the occurrence of such event.

Insurance certificates must have an original signature.

# STANDARD CALIFORNIA NONDISCRIMINATION CONSTRUCTION CONTRACT SPECIFICATIONS (GOVERNMENT CODE, SECTION 12990)

STD. 18 (REV. 1-95) FMC

These specifications are applicable to all state contractors and subcontractors having a construction contract or subcontract of \$5,000 or more.

- 1. As used in the specifications:
  - a. "Administrator" means Administrator, Office of Compliance Programs, California Department of Fair Employment and Housing (DFEH), or any person to whom the Administrator delegates authority;
  - b. "Minority" includes:
  - Black (all persons having primary origins in any of the black racial groups of Africa, but not of Hispanic origin);
  - (ii) Hispanic (all persons of primary culture or origin in Mexico, Puerto Rico, Cuba, Central or South America or other Spanish derived culture or origin regardless of race);
  - (iii) Asian/Pacific Islander (all persons having primary origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent or the Pacific Islands); and
  - (iv) American Indian/Alaskan Native (all persons having primary origins in any of the original peoples of North America and who maintain culture identification through tribal affiliation or community recognition).
- 2. Whenever the contractor or any subcontractor subcontracts a portion of the work, it shall physically include in each subcontract of \$5,000 or more the nondiscrimination clause in this contract directly or through incorporation by reference. Any subcontract for work involving a construction trade shall also include the Standard California Construction Contract Specifications, either directly or through incorporation by reference. Any subcontract for work involving a construction trade shall also include the Standard California Construction Contract Specifications, either directly or through incorporation by reference.
- 3. The contractor shall implement the specific nondiscrimination standards provided in paragraphs 6(a) through (e) of these specifications.
- 4. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the contractor's obligations under these specifications, Government Code, Section 12990, or the regulations promulgated pursuant thereto.

- 5. In order for the nonworking training hours of apprentices and trainees to be counted, such apprentices and trainees must be employed by the contractor during the training period, and the contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor or the California Department of Industrial Relations.
- 6. The contractor shall take specific actions to implement its nondiscrimination program. The evaluation of the contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The contractor must be able to demonstrate fully its efforts under Steps a. through e. below:
  - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and at all facilities at which the contractor's employees are assigned to work. The contractor, where possible, will assign two or more women to each construction project. The contractor shall specifically ensure that all leadpersons, superintendents, and other on-site supervisory personnel are aware of and carry out the contractor's obligations to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
  - b. Provide written notification within seven days to the director of DFEH when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
  - c. Disseminate the Contractor's equal employment opportunity policy by providing notice of the policy to unions and training, recruitment and outreach programs and requesting their cooperation in assisting the Contractor to meet its obligations; and by posting the company policy on bulletin boards accessible to all employees at each location where construction work is performed.

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# STANDARD CALIFORNIA NONDISCRIMINATION CONSTRUCTION CONTRACT SPECIFICATIONS (GOVERNMENT CODE, SECTION 12990)

STD. 18 (REV. 1-95) (REVERSE) AMC

- d. Ensure all personnel making management and employment decisions regarding hiring, assignment, layoff, termination, conditions of work, training, rates of pay or other employment decisions, including all supervisory personnel, superintendents, general leadpersons, on-site leadpersons, etc., are aware of the Contractor's equal employment opportunity policy and obligations, and discharge their responsibilities accordingly.
- e. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the equal employment opportunity policy and the Contractor's obligations under these specifications are being carried out.
- Contractors are encouraged to participate in voluntary associations which assist in fulfilling their equal employment opportunity obligations. The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under these specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's.
- 8. The Contractor is required to provide equal employment opportunity for all minority groups, both male and female, and all women, both minority and nonminority. Consequently, the Contractor may be in violation of the Fair Employment and Housing Act (Gov. Code Section 12990 et seq.) if a particular group is employed in a substantially disparate manner.

- 9. Establishment and implementation of a bona fide affirmative action plan pursuant to Section 8104(b) of this Chapter shall create a rebuttable presumption that a contractor is in compliance with the requirements of Section 12990 of the Government Code and its implementing regulations.
- 10. The Contractor shall not use the nondiscrimination standards to discriminate, harass or allow harassment against any person because of race, color, religious creed, sex, national origin, ancestry, disability (including HIV and AIDS), medical condition (cancer), age, marital status, or denial of family and medical care leave and denial of pregnancy disability leave.
- 11. The Contractor shall not enter into any subcontract with any person or firm decertified from state contracts pursuant to Government Code Section 12990.
- 12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and the nondiscrimination clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Government Code Section 12990 and its implementing regulations by the awarding agency. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Government Code Section 12990.
- 13. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company equal employment opportunity policy is being carried out, to submit reports relating to the provisions hereof as may be required by OCP and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status, (e.g., mechanic, apprentice trainee, helper or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in any easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.

#### DEPARTMENT OF WATER RESOURCES

## BIDDER'S BOND

We	
	,
	, as PRINCIPAL, and
TOTAL AMOUNT OF THE BID of the by and through the Department of War money of the United States, well and t	ed unto the State of California in the penal sum of TEN PERCENT (10%) OF THE Principal above named submitted by said Principal to the State of California, acting ter Resources, for the work described below, for the payment of which sum in lawfuruly to be made, to the Director of the Department to which said bid was submitted as, administrators and successors, jointly and severally, firmly by these presents
In no case shall the liability of the su	rety here under exceed the sum of \$
	CONDITION OF THIS OBLIGATION IS SUCH,
That whereas the Principal has su	bmitted the above-mentioned bid to the State of California, as aforesaid, for certain ollows, for which bids are to be opened at
•	California on
(Insert name of city where b	, California, on (Insert date of bid opening)
for	
Complete the second	
Copy here the exac	t description of work, including location, as it appears on the proposal)
under the specifications, after the pre- the prescribed form, in accordance w performance and the other to guaran- null and void; otherwise, it shall be an	said Principal is awarded the contract and, within the time and manner required scribed forms are presented to him for signature, enters into a written contract, in ith the bid, and files two bonds with the Department, one to guarantee faithful tee payment for labor materials, as required by law, then this obligation shall be demain in full force and virtue.  The eventual set our hands and seals on this
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NOTE: Signatures of those executing for the surety must be properly acknowledged.

STATE OF CALIFORNIA

## NONDISCRIMINATION COMPLIANCE STATEMENT

STD. 19 (REV. 3-95) FMC

COMPANY NAME	
The company named above (hereinafter referred to as "prospective contractor") hereby conspecifically exempted, compliance with Government Code Section 12990 (a-f) and Califf Regulations, Title 2, Division 4, Chapter 5 in matters relating to reporting required development, implementation and maintenance of a Nondiscrimination Program. Prospect agrees not to unlawfully discriminate, harass or allow harassment against any employee of employment because of sex, race, color, ancestry, religious creed, national origin, disability and AIDS), medical condition (cancer), age, marital status, denial of family and mediand denial of pregnancy disability leave.	fornia Code of ments and the cive contractor applicant for lity (including
CERTIFICATION	
I, the official named below, hereby swear that I am duly authorized to legally bind the contractor to the above described certification. I am fully aware that this certification, extended and in the county below, is made under penalty of perjury under the laws of the State	ecuted on the
OFFICIAL'S NAME Fay Yee	
Contract & Grant Analyst EXECUTED IN THE COUNTY OF	
APR 1 4 1939	-
PROSPECTIVE CONTRACTOR'S SIGNATURE  PROSPECTIVE CONTRACTOR'S TITLE  FROSPECTIVE CONTRACTOR'S LEGAL BUSINESS NAME THE REGENTS OF THE UNIVERSITY	

OF CALIFORNIA

## PAYMENT BOND TO ACCOMPANY CONSTRUCTION CONTRACT

(CIVIL CODE SECTION 3247)

			BOND NO.	* *
The premium on this	s bond is	for the term		
	K	now All Men By These Presents:		
That The State of	of California, acting by and through			
has awarded to				
nas awarded to		(CONTRACTOR / PRINCIPLE)		_whose address is
		• /	ple, a contract for the work des	cribed as follows:
			with the tropic dog	ectoed as tollows:
				•
WHEREAS, The pro-	ovisions of Civil Code Section 324 ered in accordance therewith.	7 require that the Principle file a bor	nd in connection with said cont	tract and this bond
NOW THEREF	ORE, Principle and			
under the laws of		(SURETY), and	, a corpo	ration organized
in the State of Cal	liformia, as Surety, are held and	firmly bound to the People of	authorized to transact a genera the State of California in t	ll surety business
		,	), for	
we bind ourselves, or	ır heirs, executors, administrators, s	successors and assigns jointly and se	verally, firmly by these present	r which payment
	· .	/		
1.000 10 11	THE CONDITION	ON OF THIS OBLIGATION I	S SUCH,	
2. This bond sl such persons or the 3. The aggrega exceed the penal su 4. This bond is Code and of Chapte provisions thereof.	hall insure to the benefit of any ir assigns in any suit brought up the liability of the Surety hereum of the bond in accordance wi executed by the Surety, to comper 2, Title 14, Part 2 of the Cook	ill pay for the same, otherwise the proble attorney's fee to be fixed by persons named in Civil Code Spon this bond.  Inder, including costs and attorned the provisions of Section 996. In play with the provisions of Chapted de of Civil Procedure and said by a accordance with the provisions	y the court. Section 3181 as to give a right by fees, on all claims whats 470(a) of the Code of Civil or 7, Title 15, Part 4, Division and shall be subject to all or	ght of action to soever shall not Procedure. on 3 of the Civil of the terms and
CIVII I TOCCULIC.	become effective			
		. :		
	(NAME OF SURETY)	- VIO		
		• •	(ADDRESS)	
centry (or declare)	under penalty of perjury that I	have executed the foregoing bon	d under an unrevoked powe	er of attorney.
Excedice III	(CITY AND STATE)	on	(DATE)	
inder the laws of th	e State of California.		,	
				:
		<b>•</b>		
		(SIGNATURE OF ATTORNE)	( IN FACT)	
STATE OF CALIFORNIA STD. 807 (REV 9/93) FMC		(PRINTED OR TYPED NAME	OF ATTORNEY IN FACT)	

#### STATE OF CALIFORNIA THE RESOURCES AGENCY DEPARTMENT OF WATER RESOURCES

(Sec. 78 (b) Title 11 Administrative Code)

## PERFORMANCE BOND TO ACCOMPANY CONTRACT

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	(ins	sert name of the Department awa	arding the contract)		
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			By		[Seal]

NOTE: Signatures of those executing for surety must be properly acknowledged.

State of California The Resources Agency Department of Water Resources

Agreement No.	
Exhibit	

# NONCOLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID FOR PUBLIC WORKS

STATE OF CALIFORNIA	)		
	)ss		
COUNTY OF	)		•
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(nam	е)		-
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bidding; that the bidder has a agreement, communication, or bidder or any other bidder, or price, or of that of any other body awarding the contract of statements contained in the bidirectly or indirectly, submitte contents thereof, or divulged in the pay, any fee to any corporate bid depository, or to any mesham bid.	r conference with a to fix any overhead pidder, or to secure a anyone interested oid are true; and, find his or her bid pricenformation or data toon, partnership, co	inyone to fix the b , profit, or cost elemany advantage aga in the proposed co further, that the b e or any breakdown relative thereto, or	id price of the ment of the bid inst the public ntract; that all idder has not, thereof, or the paid, and will
DATED:	Ву		
	(1	person signing for bide	der)
	Subscribed	and sworn to befo	re me on
			· · · · · · · · · · · · · · · · · · ·
(Notarial Seal)		(Notary Public)	

State of California		
The Resources Agency		
DEPARTMENT OF WATER	RRES	OURCES

Agreement No.	
Exhibit	

STANDARD CLAUSES --SMALL BUSINESS PREFERENCE AND CONTRACTOR IDENTIFICATION NUMBER

#### NOTICE TO ALL BIDDERS:

Section 14835, et. seq. of the California Government Code requires that a five percent preference be given to bidders who qualify as a small business. The rules and regulations of this law, including the definition of a small business for the delivery of service, are contained in Title 2, California Code of Regulations, Section 1896, et. seq. A copy of the regulations is available upon request. Questions regarding the preference approval process should be directed to the Office of Small and Minority Business at (916) 322-5060. To claim the small business preference, you must submit a copy of your certification approval letter with your bid.

Are you claiming preference as a small business?

\_\_\_\_\_ Yes\*
\_\_\_\_\_ No

<sup>\*</sup>Attach a copy of your certification approval letter.

## Attachment E Terms and Conditions for Federal (Department of Interior) Funds

#### U.S. Department of the Interior

# Certifications Regarding Debarment, Suspension and Other Responsibility Matters, Drug-Free Workplace Requirements and Lobbying

Persons signing this form should refer to the regulations referenced below for complete instructions:

Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions - The prospective primary participant further agrees by submitting this proposal that it will include the clause titled, "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions. See below for language to be used; use this form for certification and sign; or use Department of the Interior Form 1954 (Di-1954). (See Appendix A of Subpart D of 43 CFR Part 12.)

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions - (See Appendix B of Subpart D of 43 CFR Part 12.)

Certification Regarding Drug-Free Workplace Requirements - Alternate I. (Grantees Other Than Individuals) and Alternate II. (Grantees Who are Individuals) - (See Appendix C of Subpart D of 43 CFR Part 12)

Signature on this form provides for compliance with certification requirements under 43 CFR Parts 12 and 18. The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of the Interior determines to award the covered transaction, grant, cooperative agreement or loan.

## PART A: Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions

CHECK\_\_IF THIS CERTIFICATION IS FOR A PRIMARY COVERED TRANSACTION AND IS APPLICABLE.

- (1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
  - (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
  - (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
  - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
  - (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- (2) Where the prospective primary participant is unable to certify to any of the statements in this certification; such prospective participant shall attach an explanation to this proposal.

## PART B: Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions

CHECK\_\_IF THIS CERTIFICATION IS FOR A LOWER TIER COVERED TRANSACTION AND IS APPLICABLE.

- (1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- (2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

PART	C: Certification Regarding Drug-Free Workplace Requirements
Alterna	CHECK_IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS NOT AN INDIVIDUAL.  ate 1. (Grantees Other Than Individuals)
	e grantee certifies that it will or continue to provide a drug-free workplace by:
(a)	
(b)	·
(c)	Making it a requirement that each employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph (a);
(d)	Notifying the employee in the statement required by paragraph (a) that, as a condition of employment under the grant, the employee will —  (1) Abide by the terms of the statement; and  (2) Notify the employer in writing of his or her conviction for a violation of a criminal drug statute occurring in the workplace no later than five calendar days after such conviction;
(e)	Notifying the agency in writing, within ten calendar days after receiving notice under subparagraph (d)(2) from an employee or otherwise receiving actual notice of such conviction. Employers of convicted employees must provide unless the Federal agency has designated a central point for the receipt of such notices. Notice shall include the identification numbers(s) of each affected grant;
(f)	Taking one of the following actions, within 30 calendar days of receiving notice under subparagraph (d)(2), with respect to any employee who is so convicted —  (1) Taking appropriate personnel action against such an employee, up to and including termination, consistent with the requirements of the Rehabilitation Act of 1973, as amended; or Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;
(g)	Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs (a) (b), (c), (d), (e) and (f).
3. The spe	grantee may insert in the space provided below the site(s for the performance of work done in connection with the
lace of	Performance (Street address, city, county, state, zip code)

	Institute of Toxicology & Environmental Health
	University of California, Old Davis Road
Checkif there are	Davis, CA 95616-8615 ¥OLO COUNTY workplaces on file that are not identified here.
DART D. Cartis	

## PART D: Certification Regarding Drug-Free Workplace Requirements

CHECK\_\_IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS AN INDIVIDUAL.

#### Alternate II. (Grantees Who Are Individuals)

- (a) The grantee certifies that, as a condition of the grant, he or she will not engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance in conducting any activity with the grant;
- (b) If convicted of a criminal drug offense resulting from a violation occurring during the conduct of any grant activity, he or she will report the conviction, in writing, within 10 calendar days of the conviction, to the grant officer or other designee, unless the Federal agency designates a central point for the receipt of such notices. When notice is made to such a central point, it shall include the identification number(s) of each affected grant

PART E: Certification Regarding Lobbying Certification for Contracts, Grants, Loans, and Cooperative Agreements

CHECK\_ IF CERTIFICATION IS FOR THE AWARD OF ANY OF THE FOLLOWING AND THE AMOUNT EXCEEDS \$100,000: A FEDERAL GRANT OR COOPERATIVE AGREEMENT; SUBCONTRACT, OR SUBGRANT UNDER THE GRANT OR COOPERATIVE AGREEMENT.

CHECK SIF CERTIFICATION IS FOR THE AWARD OF A FEDERAL LOAN EXCEEDING THE AMOUNT OF \$150,000, OR A SUBGRANT OR SUBCONTRACT EXCEEDING \$100,000, UNDER THE LOAN.

The undersigned certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

As the authorized certifying official, I hereby certify that the above specified certifications are true.

SIGNATURE OF AUTHORIZ	ED CERTIFYING OFFICIAL	
TYPED NAME AND TITLE	Fay Yee Contract & Grant Analyst	/
DATE AM	APR 1 4 1	999

				OMB Approval No	. 0348-0043
APPLICATION F	OR	2. DATE SUBMITTED	12, 1999	Applicant Identifier	
FEDERAL ASSIS	STANCE	April .	14, 1999		
1. TYPE OF SUBMISSION		3. DATE RECEIVED B	Y STATE	State Applicant Identifier	<del>-, *,</del>
Application	Preapplication				
☐ Construction	☐ Construction	4. DATE RECEIVED B	Y FEDERAL AGENCY	Federal Identifier	**-
☑ Non-Construction	☐ Non-Construction				
5. APPLICANT INFORMATION			· · · · · · · · · · · · · · · · · · ·		<del></del>
Legal Name:			Organizational Unit:		
	of the University of C	alifornia	Institute	of Toxicology & Environmental He	alth
Address (give city, county, st.	ate, and zip code):		Name and telephone application (give are	number of the person to be contacted on matters i	nvolving this
University of Califo	ornia, Davis		Technical:	Marti Wolfe, (530) 754-8536	
Office of Vice Chan	cellor Research, 1 Shi	elds Avenue	!		0075
Davis, CA 95616	Υ	olo County	Administrat	ive/Budgetary: Fay Yee, (530) 752-	2075
6. EMPLOYER IDENTIFICATION	· · · · · · · · · · · · · · · · · · ·	<del></del>	7. TYPE OF APPLICAL	NT: (enter appropriate letter in box)	<del></del>
9 4	- 6 0 3 6	4 9 4		1	
	- [6   0   3   6	4 9 4	A. State	H. Independent School Dist.	
8. TYPE OF APPLICATION:			B. County C. Municipal	State Controlled Institution of Higher     Private University	Learning
			D. Township	K. Indian Tribe	
	New   Continuation	☐ Revision	E. Interstate	L. Individual	
		<del>  </del>	F. Intermunicipa	M. Profit Organization	
If Revision, enter appropriate	letter(s) in box(es):		G. Special Distri	ict N. Other (Specify)	·
A. Increase Award		Increase Duration			
D. Decrease Duration	Other (specify):		9. NAME OF FEDERAL	L AGENCY:	
				ALTED DAY DELMA DOCCO	
<del></del>	<del>4 </del>	·····	<u>C</u> ,	ALFED BAY-DELTA PROGRAM	
10. CATALOG OF FEDERAL DO ASSISTANCE NUMBER:	MESTIC	•	11. DESCRIPTIVE TITE	LE OF APPLICANT'S PROJECT:	
TITLE:					
TITLE:				Dietary Selenium on Giant Garter Sn	
			Populations	s in the Sacramento-San Joaquin Wat	ershed
12. AREAS AFFECTED BY PRO		c.):		•	-
<del></del>	Merced County				
13. PROPOSED PROJECT:	··· / / / / / / / / / / / / / / / / / /	NAL DISTRICTS OF:	· · · · · · · · · · · · · · · · · · ·		
l I	g Date a. Applicant		1	b. Project	
07/01/99 03/3	31/02	3rd	<u> </u>	3rd	
15. ESTIMATED FUNDING:				BY STATE EXECUTIVE ORDER 12372 PROCESS?	
a. Federal \$	266,850	).00 a. YES. TH S1	IS PREAPPLICATION/ FATE EXECUTIVE OR	APPLICATION WAS MADE AVAILABLE TO THE DER 12372 PROCESS FOR REVIEW ON:	
h. A. H. a. H.		<u></u>	4		
b. Applicant \$		.00 DA1	re		
A C4-4-		<del></del>	· <b>-</b>		
c. State		ь мо П	PROGRAM IS NOT CO	OVERED BY E.O. 12372	
d. Local		<del></del>			
a. Local \$		.00	OR PROGRAM HAS N	OT BEEN SELECTED BY STATE FOR REVIEW	
e. Other \$	· · · · · · · · · · · · · · · · · · ·	.00		S. SEEN SEEDS ES BY STATE I ON NEVIEW	
f. Program Income \$		.00 17. IS THE APPLIC	CANT DELINQUENT ON A	NY FEDERAL DEBT?	
g. TOTAL &		□ Yes	If "Yes," attach an ex	olonation Ma	
g. IOTAL s		.00 L res	ii res, attach an ex	planation. 🗵 No	
18. TO THE BEST OF MY KNOW	LEDGE AND BELIEF, ALL DATA	IN THIS APPLICATION/PR	EAPPLICATION ARE TRE	JE AND CORRECT. THE DOCUMENT HAS BEEN DULY	
				FACHED ASSURANCES IF THE ASSISTANCE IS AWARD	
a. Typed Name of Authorized		I	b. Title	c. Telephone	
Fay Yee	·		Contract	& Grant Analyst (530) 752-	
d. Signature of Authorized Re	presentative			e. Date Signe	ad
	200	$\triangle$	•		
Previous Editions Not Usable		<del>' \</del>		LAPR 1 4 18	999 REV 4-88)
		Audherstein der 1	neel B	Standard For 424 ** Prescribed by OMB	Circular A-102
		Authorized for L	ocal Reproductio	n	

OMB Approval No. 0348-0044

#### **BUDGET INFORMATION --Non Construction Programs**

<u> </u>		SECTIO	N A - BUDGET SU	MMARY		
Grant Program	Catalog of Federal	Estimated Und	obligated Funds New or Revised Budget			et
Function of Activity	Domestic Assistance Number	Federal	Non-Federal	Total	Non-Federal	Federal
(a)	(b)	(c)	(d)	(g)	(f)	(e)
. Research		\$544,698	\$	\$544,698	\$	\$544,698
•						
TOTALS		\$544,698	\$	\$544,698	\$	\$544,698
		SECTION	B - BUDGET CAT	EGORIES		
			GRANT PROGRAM, F	UNCTION OR ACTIVIT	ſΥ	Total
Object Class Ca	tegories	07/01/99-6/30/00	07/01/00-6/30/01	07/01/01-3/31/02	(4)	(5)
a. Personnel		\$ 43,855	\$ 45,123	\$ 7,222		\$ 96,200
b. Fringe Benefi	ts	5,748	5,985	3,008		14,741
c. Travel		1,000	1,000	2,000		4,000
d. Equipment		31,500				
e. Supplies		9,430	15,130	5,300		29,860
f. Contractual		136,442	139,717	5,459		281,618
g. Construction						
h. Other		12,096	13,396	6,856		32,348
i. Total Direct C	Charges (sum of 6a-6h)	240,071	220,351	45,246		505,668
j. Indirect Charg	es	17,513	14,700	6,817		39,030
k. TOTALS (sum	of 6l and 6j)	\$257,584	\$235,051	\$52,063		\$544,698
	e e trail					·
Program Income		\$	\$	\$	\$	\$

(a) Grant Progra	m	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS
8.		\$	\$	\$	\$
9.					1
10.					
11.					
12. TOTALS (sum of lines 8 and 11)		\$	\$	\$	\$
	SECTION D	- FORECASTED C	ASH NEEDS		
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$257,584	\$64,396	\$64,396	\$64,396	\$64,396
14. Non-Federal					
15. TOTAL (sum of lines 13 and 14)	\$257,584	\$64,396	\$64,396	\$64,396	\$64,396
					<u> </u>
SECTION E - BU	DGET ESTIMATES OF	FEDERAL FUNDS !	NEED FOR BALANC	CE OF THE PROJECT	Γ
				CE OF THE PROJECT	Γ
SECTION E - BU  (a) Grant Progra		FEDERAL FUNDS I  (b) First			(e) Fourth
			FUTURE FUNDIN	G PERIODS (Years)	
(a) Grant Progra			FUTURE FUNDIN	G PERIODS (Years)	
(a) Grant Progra 16.			FUTURE FUNDIN	G PERIODS (Years)	
(a) Grant Progra 16.			FUTURE FUNDIN	G PERIODS (Years)	
(a) Grant Progra 16. 17.			FUTURE FUNDIN	G PERIODS (Years)	
(a) Grant Progra 16. 17. 18.	m	(b) First	FUTURE FUNDIN (c) Second	(d) Third	(e) Fourth
(a) Grant Progra 16. 17. 18.	SECTION F -	(b) First	FUTURE FUNDIN (c) Second  \$ NFORMATION	(d) Third	(e) Fourth
(a) Grant Progra 16. 17. 18.	SECTION F -	(b) First  \$ OTHER BUDGET I	FUTURE FUNDIN (c) Second  \$ NFORMATION	(d) Third	(e) Fourth
(a) Grant Progra 16. 17. 18. 19. 20. TOTALS (sum of lines 16-19)	SECTION F -	(b) First  \$ OTHER BUDGET I	FUTURE FUNDIN (c) Second  \$ NFORMATION Necessary)	(d) Third	(e) Fourth

#### **ASSURANCES - NON-CONSTRUCTION PROGRAMS**

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

## PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

**NOTE:** Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

- Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
- Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
- Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
- Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
- Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
- 6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation

- Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (i) the requirements of any other nondiscrimination statute(s) which may apply to the application.
- 7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
- 8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

- Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.
- 10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
  - Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).

- Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
- 13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
- 14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
- 15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
- 16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
- 17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
- Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

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IGNATURE OF AUTHOR	ZED CERTICTING	OFFICIAL
IGHATORE OF NOTION	<b></b>	

APPLICANT ORGANIZATION

THE REGENTS OF THE UNIVERSITY
OF CALIFORNIA

TITLE

Fay Yee

Contract & Grant Analyst

DATE SUBMITTED

APR 14 1999

#### ASSURANCES -- CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0042), Washington, DC 20503.

PLEASE <u>DO NOT</u> RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET, SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the Awarding Agency. Further, certain Federal assistance awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant I certify that the applicant:

- Has the legal authority to apply for Federal assistance, and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application
- 2. Will give the awarding agency, the Comptroller General of the United States, and if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the assistance; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
- 3. Will not dispose of, modify the use of, or change the terms of the real property title, or other interest in the site and facilities without permission and instructions from the awarding agency. Will record the Federal interest in the title of real property in accordance with awarding agency directives and will include a covenant in the title of real property acquired in whole or in part with Federal assistance funds to assure non-discrimination during the useful life of the project.
- 4. Will comply with the requirements of the assistance awarding agency with regard to the drafting, review and approval of construction plans and specifications.
- 5. Will provide and maintain competent and adequate engineering supervision at the construction site to ensure that the complete work conforms with the approved plans and specifications and will furnish progress reports and such other information as may be required by the assistance awarding agency or State.
- Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
- 7. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.

- 8. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. Secs. 4728-4763) relating to prescribed standards for merit systems for programs funded under one of the nineteen statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
- Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. Secs. 4801 et seq.) which prohibits the use of lead based paint in construction or rehabilitation of residence structures.
- 10. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color of national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. Secs. 1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Agt of 1973, as amended (29 U.S.C. Secs. 794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. Secs. 6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) Secs. 523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. 290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. Secs. 3601 et seq.), as amended, relating to non-discrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made, and (j) the requirements of any other non-discrimination Statute(s) which may apply to the application.

Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provides for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal and federally assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.

Will comply with the provisions of the Hatch Act (5 U.S.C. Secs. 1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. Secs. 276a to 276a - 7), the Copeland Act (40 U.S.C. Secs. 276c and 18 U.S.C. Sec. 874), the Contract Work Hours and Safety Standards Act (40 U.S.C. Secs. 327-333), regarding labor standards for federally assisted construction subagreements.

Will comply with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.

Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the

National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. Secs. 1451 et seq.); (f) conformity of Federal actions to State (Clear Air) Implementation Plans under Section 176(c) of the Clear Air Act of 1955, as amended (42 U.S.C. Secs. 7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended, (P.L/93-523); and (h) protection of endangered species under the Endangered Species Act of 1973, as amended, (P.L. 93-205).

- Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. Secs. 1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
- 17. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. Sec. 470), EO 11593 (identification and preservation of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. 469a-1 et seq.).
- 18. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act of 1984.
- 19. Will comply with all applicable requirements of all other Federal laws, Executive Orders, regulations and policies governing this program.

GNATURE OF AUTHORIZED CERTIFYING OFFICIAL	TITLE	·	<del></del>
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	Contract & Grant Analyst	•	
PLICANT ORGANIZATION	DATE SUBMITTED		
THE REGENTS OF THE UNIVERSITY OF CALIFORNIA			